VIPPY NUMBER ONE

THE NEWSLETTER FOR V-I-P USERS

How to improve V-I-P input with OCR translate routines

You can improve your input of characters and commands for the Vippy by changing to a more mnemonic (memory oriented) system. Except for a computer, the only meaningful method for accomplishing this is a "self-programmable" optical scanner. For illustration we have selected the approach used by Mergenthaler's OCR 100 and CompuScan's Alpha (essentially the same device) and have set up a complete Vippy program (which you are invited to use as you please.)
These scanners allow you to set up simple equivalents. Thus any typewritten characters can be made to equal any one or several TTS codes. Additionally, single or multiple blank spaces can also generate a variety of codes. To do this you use a chart (see box of "TTS Equivalents") and then very simply type a statement of conversion, for instance,

/l = **n33**

which says that every time "/l" is typed the TTS code for quad left will be generated. Here's another,

/stop = **n76, u27, u12**

which says that an "Unshift Bell s" will be output. You could have also used "/s" but the word stop can be seen more plainly. Here's a "harder" one,

Δ4s = **n33**

which says that four blank spaces will output a TTS quad left. Therefore at the end of each paragraph you need only leave four spaces to get the required terminator. Or,

/p = **n33, n13**

which says that "/p" or paragraph end equals a TTS quad left and an EM space so that you automatically terminate the last line and also generate on EM indent for the next paragraph. You can even,

fi = **u45, u07, n76**

to get the ligatures automatically. Or,

Wo = **n76, u27, n31, u73, s46, v60**

to get automatic kerning, or,

/da = **n76, u27, u47, s17**

which says that you can get a daggar without remembering the font layout because the codes say "change to font two and flash the shift position of the 7."
For our program we will assume that you use three basic fonts

Roman in Drum position 1
Italic in Drum position 2
Bold in Drum position 3

With each set of equivalents we will indicate what TTS codes are output and why it was set up that way. In all cases we have aimed for the greatest amount of simplicity and memory orientation.

The major advantage of OCR translation routines is the creation of more mnemonic coding (easier to remember) and coding that eliminates extra actions on the part of the operator. This table provided is certainly not complete, since you will find many approaches to cutting keystrokes. Users of systems such as this claim that they have increased input productivity by as much as 50 per cent and have cut coding errors by as much as 90 per cent.

RL	Ragged left	/rl	= n76, u27, u24, u44
RR	Ragged right	/rr	= n76, u27, u24, u24
RX	Cancel ragged setting	/xr	= n76, u27, u24, u72
S	Stop	/s	= n76, u27, u12, *s, n177
TA	Average spaceband value	/as	= n76, u27, u40, u06
TL	Maximum spaceband before letterspacing	/ls	= n76, u27, u40, u44
TM	Maximum spaceband before hyphenation	/hs	= n76, u27, u40, u70
TN	Minimum spaceband value	/ms	= n76, u27, u40, u30
U	Use tabulation	/ut	= n76, u27, u16
V	Wire Stripping	/ws	= n76, u27, u74
W	Conditional command	/cc	= n76, u27, u46
X	Set tabulation widths	/st	= n76, u27, u72
Y	End set tabulation widths	/et	= n76, u27, u52
Z	Suspend tabulation	/xt	= n76, u27, u42
8	Allow flash	/af	= n76, u27, u15
9	No flash	/xf	= n76, u27, u61
$	Character tighten	/ct	= n76, u27, u07
$N	Disenable script option	/xs	= n76, u27, u07, u30
$S	Enable script option	/es	= n76, u27, u07, u12
.	Increase character width	/+w	= n76, u27, n71
,	Decrease character width	/-w	= n76, u27, n31
-	Discretionary hyphen	/-	= n76, u27, u23
/	Supplementary line length	/+l	= n76, u27, u21
	Quad left	/l	= n33
	Quad right	/r	= n37
	Quad center	/c	= n75
	Elevate [justify]	/j	= n04
	Return [merge]	=	= n20
	Vertical rule [supershift]	/ss	= u45
	Shift	/s	= n66
	Unshift	/u	= n76
	Add-thin [cancel word]	/xw	= n11
	Paper feed-unshift [minus one unit]	/-u	= n76, n05
	Paper feed-shift [plus one unit]	/+u	= n66, n05
	Bell	/b	= n76, u27
A2	Change to italic	/it	= n76, u27, u47
A3	Change to bold	/bld	= n76, u27, u03
A1	Change to roman	/rom	= n76, u27, u73
HL0000	Cancel left or right hanging indent	/xhi	= n76, u27, u50, u44, u55, u55, u55, u55,
HR0000			n76, u27, u50, u24, u55, u55, u55, u55
	Cancel left or right indent	/xi	= n76, u27, u14, u44, u55, u55, u55, u55
			n76, u27, u14, u24, u55, u55, u55, u55
	EM space	/m	= n13
	EN space	/n	= n35
	thin space	/t	= n01
	EN leader	/.	= n57
A2 7	Daggar	/da	= n76, u27, u47, s17
A2 2	Section mark	/sm	= n76, u27, u47, s17, s47
	EM dash	--	= s15
	Slash	//	=

BELL CODE	FUNCTION	OCR	TTS Equivalents
A	Change font	/A	= n76, u27, u06
B	Change font	/B	= n76, u27, u62
C	Change font	/C	= n76, u27, u34
D	Automatic leadering [repeat]	/ar	= n76, u27, u22
E	Allow hyphenation	/ah	= n76, u27, u02
F	Film advance	/fa	= n76, u27, u32
G	Cancel hyphenation	/xh	= n76, u27, u64
HL	Hanging indent left	/hl	= n76, u27, u50, u44
HR	Hanging indent right	/hr	= n76, u27, u50, u24
IF	Immediate film advance	/if	= n76, u27, u14, u32
IL	Indent left	/il	= n76, u27, u14, u44
IR	Indent right	/ir	= n76, u27, u14, u24
J	Change to justified	/cj	= n76, u27, u26
K	Allow letterspacing	/al	= n76, u27, u36
L	Line length	/ll	= n76, u27, u44
M.	Supplementary film advance [add]	/+f	= n76, u27, u70, n71
M,	Supplementary film advance [subtract]	/-f	= n76, u27, u70, n31
N	Change to unjustified	/cu	= n76, u27, u30
OL	Indent text left	/itl	= n76, u27, u60, u44
OR	Indent text right	/itr	= n76, u27, u60, u24
OX	Cancel indent text	/xit	= n76, u27, u60, u72
P	Point Size	/ps	= n76, u27, u54
QE	End stored format	/ef	= n76, u27, u56, u02
QS	Begin stored format	/sf	= n76, u27, u56, u12
QU	Use stored format	/uf	= n76, u27, u56, u16

TTS EQUIVALENTS

a	u06	8	u15
b	u62	9	u61
c	u34	0	u55
d	u22	$	u07
e	u02	Period	n71
f	u32	Comma	n31
g	u64	Colon	s65
h	u50	Semicolon	u65
i	u14	Quote	u21
j	u26	Hyphen	u23
k	u36	Open Paren	s43
l	u44	Close Paren	u43
m	u70	Vertical Rule	u45
n	u30	Quad Left	n33
o	u60	Quad Right	n37
p	u54	Quad Center	n75
q	u56	Upper Rail	n63
r	u24	Lower Rail	n67
s	u12	En LDR	n57
t	u40	Em LDR	n51
u	u16	Em Space	n13
v	u74	En Space	n35
w	u46	Thin Space	n01
x	u72	Spaceband	n10
y	u52	Tape Feed	n00
z	u42	Rubout	n77
1	u73	Paper Feed	n05
2	u47	Bell	u27
3	u03	Elevate	n04
4	u25	Return	n20
5	u41	Add Thin	n11
6	u53	Shift	n66
7	u17	Unshift	n76

Unshift	Shift	Unshift	Shift
Tape Feed	Tape Feed	5	5/8
Thin Space	Thin Space	z	Z
e	E	)	(
3	3/8	1	L
Elevate	Elevate	Vertical Rule	Vertical Rule
Paper Feed	Paper Feed	w	W
a	A	2	1/4
$	!	h	H
Spaceband	Spaceband	Em Leader	Em Leader
Add-thin	Add-thin	y	Y
s	S	6	3/4
Em Space	Em Space	p	P
i	I	0 (zero)	?
8	Em Dash	q	Q
u	U	En Leader	En Leader
7	7/8	o	O
Return	Return	9	&
Close Quote	Close Quote	b	B
d	D	Upper Rail	Upper Rail
Hyphen	+	g	G
r	R	:	:
4	1/2	Shift	Shift
j	J	Lower Rail	Lower Rail
Bell	Bell	m	M
n	N	Period	Period
Comma	Comma	x	X
f	F	1	1/8
Quad Left	Quad Left	v	V
c	C	Quad Center	Quad Center
En Space	En Space	Unshift	Unshift
k	K	Rub-out	Rub-out
Quad Right	Quad Right		

NEWS OF THE VIPPY

This fall Mergenthaler will announce an NJ300 keyboard. It is essentially a non-justifying version of the Micomp with more functions and better electronics than the previous NJ's. The Micomp itself will soon have an optional plug-in editing terminal that displays 8 thirty-two character lines. No specs yet, but the idea sounds interesting.

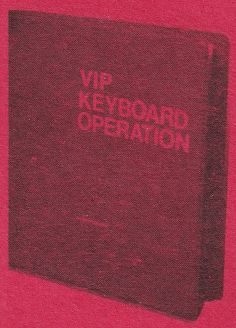
G. O. Graphics of Lexington, Massachusetts has a simple device for checking electronic logic levels called the Digital Typeset Analyzer. It can often substitute for an oscilloscope and in the right hands can be a real aid in service. Price is $134.00.

A 150 line per minute Vippy will be announced shortly. We will report futher after its introduction.

A loading sling is now available from Mergenthaler so that you can load a box of photo paper into the Vippy directly, without having to load a cassette. If you use Kodak Spec. 175 instead of 281 you can put 150 feet of paper in the Vippy at one time and reduce waste and time lost for loading.

The next issue: What's going on with home-made fonts; how to save money by getting certain electronic parts at your local Radio Shack or electrical distributor (with a chart of equivalent part numbers); more helpful hints and news. And in future issues: getting to the heart of the Advanced Typographic Program; answers to the problem of poor hyphenation; computer systems for the Vippy, and much more.

A KEYBOARD TRAINING MANUAL FOR THE V-I-P



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V-I-P Keyboard Operation

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